Traveler Title:	Specification No:	Revision:	DR No:
Booster Correction Multipole Magnet Assembly	5520-TR-333819	J	4534

Step No:	Drawing No:	Routing Form No:	Serial No:	Rework ID:
7.10	ME-445311		BMA064	0

Discrepancy Description:

Traveler instructs to Measure the following windings parameters.
The D.C. resistance limit for the Skew Quad circuit is 1300 milli ohms - 1400milli ohms.
Actual Skew Quad circuit D.C resistance measured 1221 milli ohms.

Originator:	Date:
Dennis Gaw	7/24/2008 10:20:48 AM

Cause of Nonconformance:

Five of the eight C1 coils used a different type of conductor than the "typical" coil. The layer 5 (skew quad) resistance for these coils is around 140 m-ohms, which is about 30 m-ohms less than the nominal value. The total effect on the skew quad circuit is about 150 m-ohms, which would put the total resistance back into the limit.

Responsible Authority:	Date:
Jamie Blowers	7/24/2008 10:20:48 AM

Disposition:

Accept magnet as-is. This is a known issue, and since each magnet is powered individually this will not pose an operational problem.
Disposition verify notes: Assembly has proceeded with this magnet.

Responsible Authority: Jamie Blowers

Date: 7/24/2008 4:45:20 PM

Corrective Action to Prevent Recurrence:

None. This deviation was pre-approved by Fermilab.
Disposition verify notes: None.

Responsible Authority: Jamie Blowers

Date: 7/24/2008 4:45:20 PM

Corrective Action/Disposition Verified By: Dennis Gaw

Date: 8/19/2008 2:05:15 PM

Will Configuration be affected?: ☐ YES ☑ NO

Identified problem area:

☐ Material ☐ Manpower ☐ Method ☐ Machine ☑ Measurement

Reviewed By: Bob Jensen

Date: 8/20/2008 8:42:13 AM